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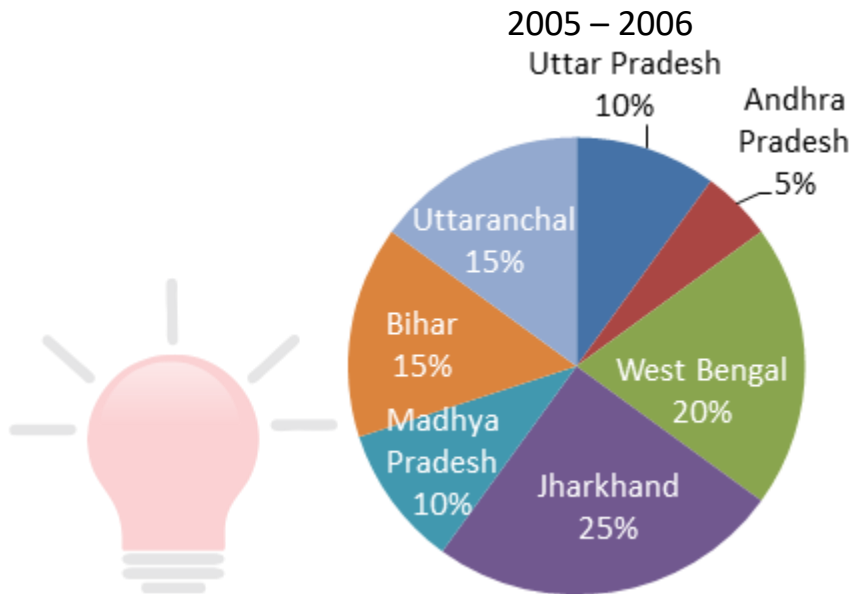
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DI Pie Chart Questions for SBI PO Pre, IBPS PO Pre, SBI Clerk Mains, IBPS Clerk Mains and RRB Scale I Pre Exams.

DI Pie Chart No. 65

Directions: Study the following pie chart carefully and answer the questions given beside.

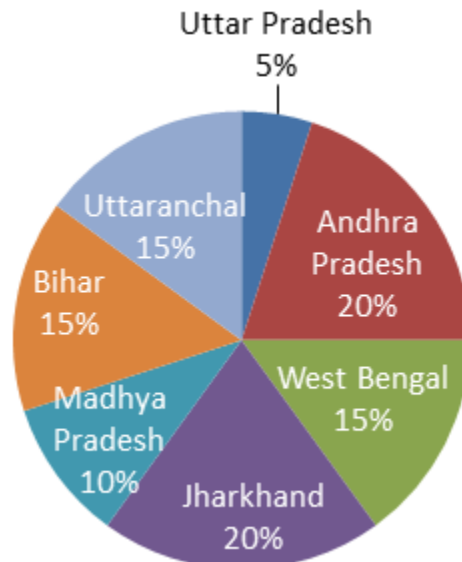
The pie charts give the percentage distribution of the iron ore produced in India in 2005-2006 and 2006-2007.



2005 – 2006

Total = 720 million tonnes

2006 – 2007



Total = 1080 million tonnes

1. From 2005 – 2006 to 2006 – 2007, which of the following states showed the maximum percentage increase in the iron ore production?

A. Andhra Pradesh B. Madhya Pradesh C. Bihar D. Uttar Pradesh E. Can't be determined

2. From 2005 – 2006 to 2006 – 2007, which of the following states showed the minimum percentage increase in the iron ore production?

A. Uttar Pradesh B. West Bengal C. Madhya Pradesh D. Jharkhand E. Can't be determined

3. In each of 2005-06 and 2006-07, 40% of the total iron ore production is exported. What is the percentage increase in the iron ore exported from 2005-06 to 2006-07?

A. 25% B. 10% C. 50% D. 75% E. 100%

4. What is percentage increase in the production of iron ore in Andhra Pradesh from 2005 – 06 to 2006 – 07?

A. 100% B. 200% C. 300% D. 400% E. 500%

5. In the pie chart for 2006-07, only 50% of the iron ore produced in West Bengal was included, and if new pie chart is drawn after correcting this, all other values remaining the same, then what percentage of the total iron ore produced in India was produced in West Bengal?

A. 18% B. 22% C. 26% D. 28% E. 30%

Correct Answers:

1	2	3	4	5
A	B	C	E	C



Explanations :

1. The production of iron ore by the different states are

State	2005 – 06	Production (million tonnes)	2006 – 07	Production (million tonnes)
West Bengal	20%	144	15%	162
Jharkhand	25%	180	20%	216
MP	10%	72	10%	108
Bihar	15%	108	15%	162
Uttaranchal	15%	108	15%	162
Uttar Pradesh	10%	72	5%	54
Andhra Pradesh	5%	36	20%	216

It can be seen that the percentage increase for Andhra Pradesh is 500% while for all others it is much less or decreased.

Hence, option A is correct.

Alternate Solution:-

As the total production of iron ore from 2005-06 to 2006-07 has increased, the state which has the highest percentage increase in the production share over the previous year will have the maximum percentage increase in the production of iron ore. By observation Andhra Pradesh has the highest percentage increase.

Hence, Option A is correct.

2. The production of iron ore by the different states are

State	2005 – 06	Production (million tonnes)	2006 – 07	Production (million tonnes)
West Bengal	20%	144	15%	162
Jharkhand	25%	180	20%	216
MP	10%	72	10%	108
Bihar	15%	108	15%	162
Uttaranchal	15%	108	15%	162
Uttar Pradesh	10%	72	5%	54
Andhra Pradesh	5%	36	20%	216

It can be seen that the percentage increase for West Bengal is less than 20% while for all others it is much more or decrease.

Hence, Option B is correct.

3. Amount of iron ore exported in 2005-06 = $0.4 \times 720 = 288$ million tons

Amount of iron ore exported in 2006-07 = $0.4 \times 1080 = 432$ million tonnes

$$\text{Percentage increase} = \frac{(432 - 288) \times 100}{288} = 50\%$$

Alternatively, as the share is equal in both the years, percentage increase

$$= \frac{(1080 - 720) \times 100}{720} = 50\%$$

Hence, Option C is correct.

4. Amount of iron ore produced in Andhra Pradesh in 2005-06

$$= \frac{5 \times 720}{100} = 36 \text{ million tons}$$

Amount of iron ore produced in Andhra Pradesh in 2006-07

$$= \frac{20 \times 1080}{100} = 216 \text{ million tons}$$

$$\% \text{ increase} = \frac{180 \times 100}{36} = 500\%$$

Hence, Option E is correct.

5. Iron produced in West Bengal as given in the pie chart = 15% of 1080 = 162 million tonnes

Actual production in West Bengal = $162 \times 2 = 324$ million tonnes

Total production in India = $1080 + 162 = 1242$ million tonnes

$$\text{Reqd. \%} = \frac{324 \times 100}{1242} = 26\%$$

Hence, Option C is correct.



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